
Part III – RW-470 PLOTCLIENT HDI/ADI

Introduction

RW-470 PLOTCLIENT HDI/ADI produces HPGL/2-files from the drawings and documents, which have been produced in the AutoCAD programs AutoCAD R13, AutoCAD R14, AutoCAD 2000, AutoCAD 2000i, AutoCAD 2000 LT or AutoCAD 2000 LTi. The print jobs can be sent to the RW-470 PLOTCLIENT WIN program or directly to the RW-470 PLOTBASE server program. Further settings can be made there, before the print jobs are sent to the RW-470 plotter.

In the following, the installation is described first. The configuration options for your print jobs are explained in the following chapter.

Installation

The installation of the program is carried out on a workstation, on which an AutoCAD program is installed. You will find the installation program in the shared "Tools" folder of RW-470 PLOTBASE:

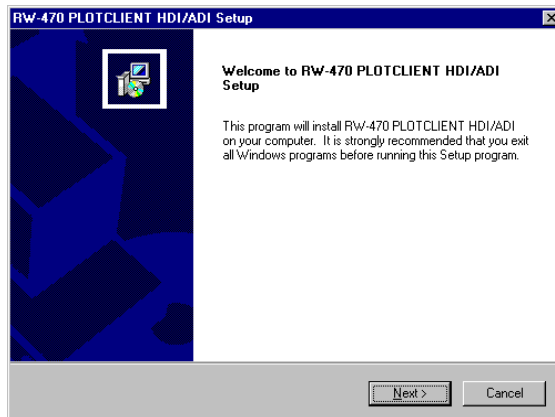
\\<Server>\Tools\PLOTCLIENT_HDI_ADI\

Start the installation by double clicking on the "Setup.exe" file in the folder "PLOTCLIENT_HDI_ADI". The installation program is started. Proceed as follows:

1. First select the language, in which you wish to carry out the installation and confirm with "OK":

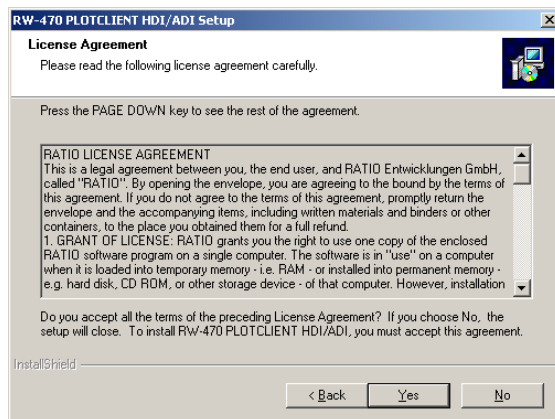


2. In the window that opens you are asked to close all Windows programs before beginning the installation:

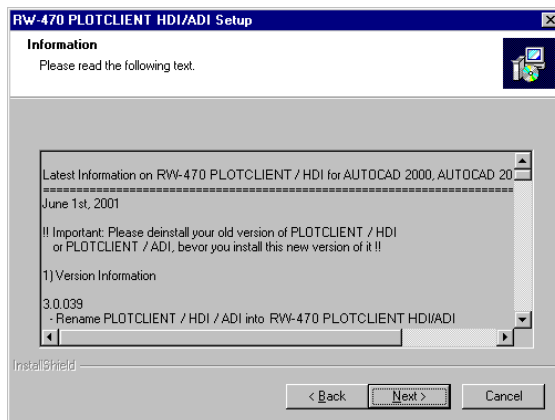


Continue the installation by clicking once on "Next".

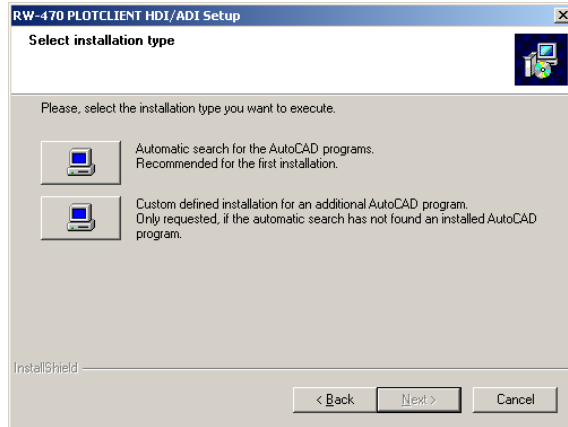
3. In the next window read the license terms and confirm with "Yes":



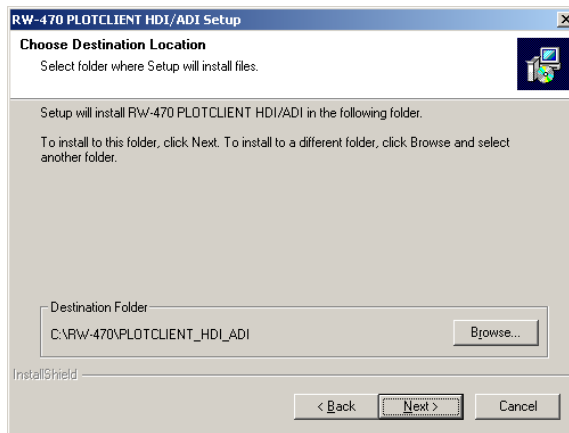
4. In the following window read some latest information about RW-470 PLOTCLIENT HDI/ADI:



5. Make your decision if the installation program shall search automatically for any AutoCAD software on your PC or if you want to inform the program where your AutoCAD is installed:



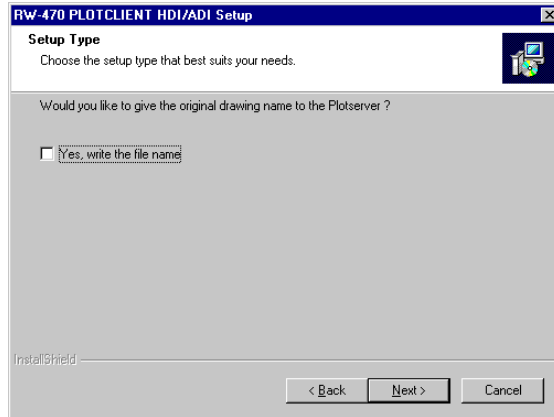
6. In the new window you are asked to confirm the path of the target folder for the program that is given or to choose your own target folder:



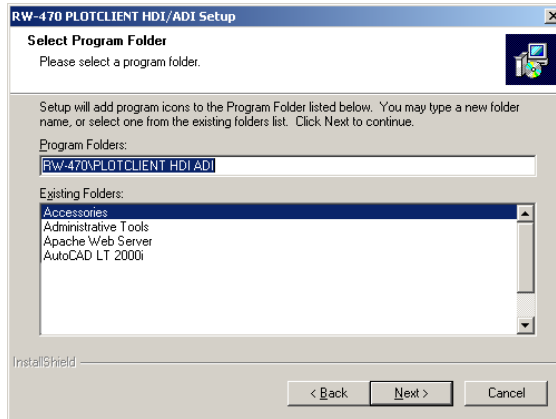
If you wish to save the program in another target folder save, click on the "Browse" button and choose a folder. Confirm your selection. Continue with the installation by clicking on "Next".

7. Only if you have installed AutoCAD 13/14 activate in the next window the option "Yes, write the file name", if you want to see the original file names as well as the freely se-

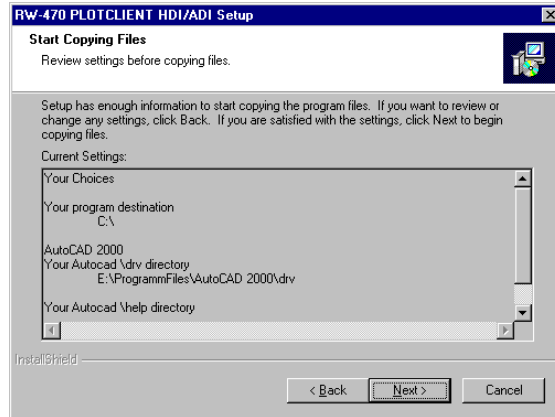
lected file name picked by the AutoCAD program on printing:



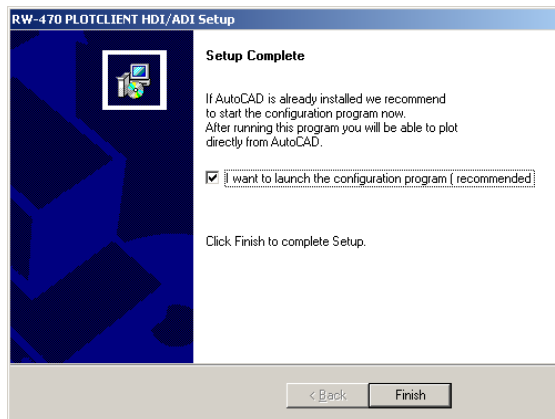
8. A new window opens, in which you can confirm the suggested folder name for the program or enter your own name:



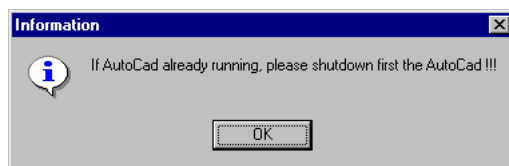
- Click on "Next" to continue the installation program.
9. In the new window all the directories for the installation are listed again. Click on "Next", so that all files are copied to your computer:



10. In this window you are informed that the installation is completed. If you have installed AutoCAD 13 or 14 and like to start the configuration now, please let check box activated:



11. If you have opened AutoCAD, you must first close it to carry out the specific configuration for AutoCAD 13/14, that will be described in the following chapter. Confirm with "OK":



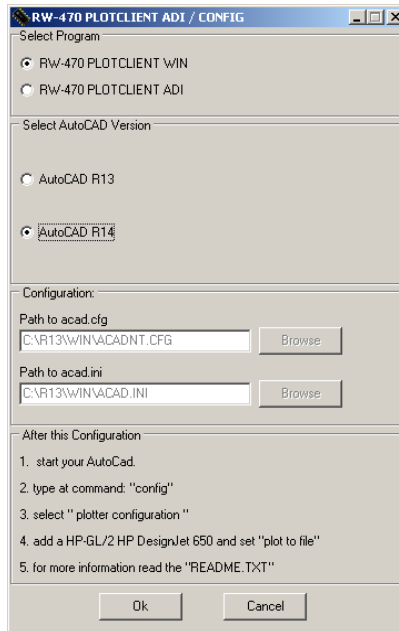
The following chapter explains the configuration of RW-470 PLOTCLIENT HDI/ADI.

Configuration

To configure RW-470 PLOTCLIENT HDI/ADI you must carry out two further configurations. First via the program's own configuration tool and then in the print dialog of AutoCAD.

Configuration for AutoCAD 13/14 via configuration tool

If you have deactivated during installation the check box for the start of the configuration tool in step 9, start the configuration tool now via "Start - programs - RW-470 - RW-470 PLOTCLIENT HDI ADI - Config" and enter the following settings:



- **Select Program**

Select RW-470 PLOTCLIENT WIN, from which you wish to send your print jobs to RW-470 PLOTBASE for printing. If you use the [HDI/]ADI Client, your presets always only apply for the current

print job. If you take RW-470 PLOTCLIENT WIN, you can add several other print jobs to your current print job and have the same presets for all.

- **Select AutoCAD version**

If you work with one of the two AutoCAD versions R13 or R14, inform RW-470 PLOTCLIENT WIN which Version you use.

- **Configuration**

If AutoCAD 13 has not been installed with the standard paths, inform RW-470 PLOTCLIENT WIN the two paths in which the configuration file "ACADNT.cfg" and initialization file "ACAD.ini" are. For AutoCAD 14 no settings are required.

After you have entered the settings in the configuration tool, you now only have to set up your new printer driver and enter the final presets in the print dialog of AutoCAD. You can then start printing.

Settings for AutoCAD 13/14 in print dialog

To set up the printer with the print dialog in AutoCAD 13 or 14 proceed as follows:

1. Start your AutoCAD 13/14 program.
2. If not done before, please install a HP-GL/2 printer driver, e.g. HP DesignJet 650C. If you cannot find this printer driver in the printer list of your AutoCAD program, you will find it on your AutoCad installation CD. In the program folder of RW-470 PLOTCLIENT HDI/ADI you will find a readme file with a detailed description of how to install a HP-GL/2 printer driver.
3. Open any drawing.
4. Open via „File - Print“ the window „Print/Plot Configuration“.
5. Click on „Device and Default Selection“ and choose the HP-GL/2 printer from the list, e.g. HP DesignJet 650C. Confirm with „Ok“.
6. Activate option „Plot To File“ on the tab „Plot Configuration“ in the section „Additional Parameters“. In AutoCAD 14 you have to activate additionally the option „Autospool“. Confirm with „Ok“.

7. If you have preset in the configuration tool, that you want to use RW-470 PLOTCLIENT HDI/ADI to edit your print jobs and when you start your first print job the window „Enter spool directory“ will be opened. Enter here the spool path of the server program RW-470 PLOTBASE as follows:

\\<Server>\Spool\cfg

If required the spool path can be changed again in the section „Option“ of RW-470 PLOTCLIENT HDI/ADI.

8. According to your settings in the configuration tool, either RW-470 PLOTCLIENT WIN or RW-470 PLOTCLIENT HDI/ADI will be opened to edit your plot jobs. Please confirm in RW-470 PLOTCLIENT WIN, that the correct spool path is set to:

\\<Server>\Spool\ssl

Settings for AutoCAD 2000 in print dialog

To set up the printer with the print dialog in AutoCAD 2000 proceed as follows:

1. Start your AutoCAD 2000 program.
2. Open the „Plotter Manager“.
3. Open the dialog „Add A Plotter Wizard“ and click on „Next“.
4. Choose the „local printer“ as your printer.
5. From the manufacturer list of „RW-470“ choose the „PLOTBASE“ printer and click on „Next“.
6. In the next window click on „Next“, without importing a „PCP or PC2 file“!
7. Now choose the option „Auto Spool“ and click on „Next“.
8. Confirm the plotter name „PLOTBASE“.
9. Click on „Edit Plotter Configuration“ and enter your plotter configuration.
10. Open the user-specific „Properties“, to enter specific driver settings as well as the medium and resolution settings:
 - Do not warn of over lengths: If you do not want to receive the warning message for over lengths, switch this off here . The warning message would draw your attention to the over lengths with additional information, so

that you would have the opportunity to prematurely abort.

- Raster gamma correction: With the gamma correction, to put it simply, you set the brightness of the print. The gamma correction can be used in all plotters, which work with raster data. You can set a value between 1 and 5, whereby 5 means the greatest brightness.
- Choose RW-470 program mode: Here you can choose whether you always want to print your print jobs from AutoCAD as individual print jobs or whether you need to process several drawings in one drawing set together. If you want to process several drawings simultaneously for printing, activate "generate set with RW-470 PLOTCLIENT WIN". If you always only want to send individual jobs from AutoCAD to print and always want to use the same plot parameter settings, tell the program "do not display" this dialog. If you want to decide before each print and enter new print parameters, simply let this dialog be "Display" each time".
- Plot color merge control: You have two options to choose. By activating „Colors merge“ all levels of your drawing will be merged. At parts, where two or more colors lie on top of each other, colors will be merged. If activating the option „Colors overwrite each other“ higher levels overwrite completely levels below. Transparent parts do not overwrite any colour.

11. Quit the plotter settings by clicking once on "Finish".

After you have carried out the configurations, you can either send you print jobs from AutoCAD directly to RW-470 PLOTBASE or to the RW-470 PLOTCLIENT WIN. The following chapter explains the individual settings for the printer parameters.

Presets for print jobs

As soon as you want to send the file to print, the presets for the print open, in which you enter on which medium and format you want to print or even, whether the file is to be printed rotated and mirrored. You can alter the settings for the print job on three tabs:

- Main menu
- Extended
- Options

“Main menu” tab

- **Formats**

In this section of the tab you select the drawing format, in which the drawing is to be printed. Apart from the “Original” you will also find the drawing formats: ISO A/B/C, ANSI A-E and ARC A-E.

In the format setting “Original” the program obtains the format size from the original file of the drawing. This is the presetting. If you want to scale the drawing use scaling option in AutoCAD. AutoCAD supports definition of custom defined paper formats.

- **Border**

If you want a white margin around the drawing plot, activate the “ON” field and enter the required spacing for all side margins. You can choose between the size units mm, inches and pixels.

- **Invert**

If you activate this option, the drawing is inverted, i.e. black and white colors are swapped.

- **Copies**

You can enter any number of copies between 1 and 999 to be printed by the job.

- **Media type**

Use this menu to select which type of media the drawing is to be printed on: Paper, Transparency, Film. The selection depends on what roll of medium you have fed in the plotter.

- **Mirror**

In this area you can set whether the drawing is to be mirrored or not during plotting. You can choose from four options

OFF: The drawing is not mirrored during plotting.

X: The drawing is mirrored horizontally.

Y: The drawing is mirrored vertically.

XY: The drawing is mirrored about both axes simultaneously; equates to a 180° rotation.

You usually use these settings if the drawing has been scanned and saved with a mirror inversion. This is especially important if a transparency has been scanned with mirror inversion to increase the contrast

- **Output**

You have two possible options to choose from for your plots on the RW-470 plotter: Front (output at the front) and rear (output at the rear). The standard setting is output at the front.

- **Media Source**

You can select one of the plotter rolls offered. In addition, you can also choose the "automatic" or "manual" options. The "automatic" option means that the plotter itself selects a suitable roll, which corresponds to the given format. The "manual" option means that you feed the print medium in the input tray yourself.

- **Rotate**

Here you can set whether the drawing is to be rotated or not during plotting. Rotations of 0°, 90°, 180° and 270° are possible. When set to "Auto", RW-470 PLOTCLIENT HDI/ADI rotates automatically if this results in less waste paper.

- **Cut Mode**

The selections available are "Synchro" and "Format". If you choose "Synchro", the plotter cuts the drawing immediately after the last data has been printed. This results in optimum paper or medium use, because it produces the smallest amount of waste. On the other hand, if you want the printout to always be cutted to a standard format, irrespective of how much space remains

unused, activate "Format". The plotter then always cuts to the next largest format. This can be a disadvantage if e.g. a drawing is only around 0.5 cm larger than a ISO A5 page is printed on a ISO A4 page and thus almost 50 % of the sheet remains unused. The advantage is that some folders require exact formats and you can match them using the "Format" setting.

- **Size unit**

Set the size units to "mm" or "inches", which apply for all settings.

- **Plotter name**

Enter the name of the plotter, on which the plots are plotted. The program only automatically provides you with the connected plotters to choose from. In this version it will be the RW 470 plotter.

"Extended" tab

- **User name**

The basic settings are loaded and saved under this name. If the name used for the current plotter type is not yet available on the INI file, the current settings in the windows are set as the basic settings for this user. If the user name already exists, the current settings are overwritten by the saved basic settings for this user from the INI-file.

- **email**

Enter the email address to which the RW-470 PLOTCLIENT HDI/ADI should automatically send a message following successful completion of the plot job.

- **Account**

In this field the account number of the client is entered. This can be an account number, which you assign in-house or the receiver of the invoice in-house.

- **Locked Print**

By confirming the "Enter password" button, a dialog is displayed in which the user is requested to enter a password. After this, the

print out can only be started at the server RW-470 PLOTBASE, if the correct password has been entered.

- **Priority**

Set the priority of the print job. If several print jobs are in the queue, the job with the highest priority is plotted first.

- **Delete file after print**

Activate this option, if the job is to be deleted immediately following successful print out.

- **Sample Print**

Activate this option, if you want to check the quality of a print off. Only the first set of copies will then be printed. The print off of further sets of copies is stopped, so that you can check the quality of the print off. Then you will be asked, whether you would like to continue with the print out or abort.

- **Stamp text**

Enter the brief text to be printed on the drawing as a stamp.

- **Size**

Set the font size for the stamp text. You can set the value between 10 pt to 48 pt.

- **Rotate**

If you wish the stamp to be rotated on printing, enter the angle of rotation.

- **Position**

With this option you can fix the position of the stamp text on the drawing. You can choose between nine positions.

“Options” tab

- **Plotter name**

By confirming the “Change” button, the user can issue their own plotter name in an extra dialog. In this way, they can better differentiate between the different basic settings if necessary. The only condition: At least one character must be entered and you must not issue the same name twice for the same platter type.

- **Spool folder**

A dialog is opened with the "Find" button, in which the user can search for the spool folder on their computer or in the network.

- **Default CFG**

When the plot job is written, the CFG commands from this file are first written to this file and then the values that have been set in the windows. In this way, special properties of plotters can be supported. The CFG file can be entered directly in the text field or selected with the "Find" button. If this CFG file is not available or if there is a syntax error in the CFG commands, an error message appears and the old file name is reset.

- **Save as basic settings**

The current settings are saved for the current user name and plotter type by pressing the confirmation button.

- **Reinstate basic settings**

The settings saved for the current user name and plotter type are loaded from the INI-file and the dialogs are updated.

- **Select mode**

RW-470 PLOTCLIENT HDI/ADI can be used in different modes:

- Display this dialog: When starting RW-470 PLOTCLIENT HDI/ADI, this dialog is always displayed for editing the job settings.
- Do not display this dialog: When starting RW-470 PLOTCLIENT HDI/ADI, no dialog is displayed and the print job is printed with the settings from the user's basic settings for the current plotter type.
- Generate set with RW-470 PLOTCLIENT WIN: When starting RW-470 PLOTCLIENT HDI/ADI, RW-470 PLOTCLIENT WIN is started and the plot file is transferred to this program. The RW-470 PLOTCLIENT WIN can then be used with SSL commands to produce a complete job set made up of the individual print files.

Part IV – RW-470 PLOTCLIENT WEB

Introduction

The RW-470 PLOTCLIENT WEB enables you to send print jobs to RW-470 PLOTBASE both via the Intranet as well as via the Internet. You can stipulate numerous print parameters. Successful processing of the print processes in RW-470 PLOTBASE can be controlled via a status message. Equally, you can also have an e-mail sent to obtain a message on successful job completion or if there are problems.

The chapters "System requirements", "Installation" and "Configuration" from Page 95 are directed at the administrator of the program. The main chapter "Edit print jobs " from Page 102 is of interest for users.

Installation

To access the program you merely need a current version of a browser program. Use the Microsoft Internet Explorer. We recommend at least Version 5.5.

The installation of RW-470 PLOTCLIENT WEB has already been carried out on the RW-470 PLOTBASE server. To be able to use the "add multiple" function in the browser program, a Java runtime environment must be installed on your workstation. This program has been supplied for three different operating systems. These programs are located on the server in the following shared folder:

`\\<Server>\Tools\PlotclientWebPlugins\`



Note: If you do not install the respective plugin, you cannot use "add multiple" function in RW-470 PLOTCLIENT WEB.

The following installation programs are delivered with the software and offered in this folder:

- **J2re-1_3_1-linux-i386.bin:** This program is for installation on a Linux computer. Click on "bash Inst-java.sh" to start installation. After installation, the archive and the unpacked files can be deleted on the workstation.
- **J2re-1_3_1-win-i.exe:** With this setup program you can install Java Runtime for Windows. Start the installation with a double click on the file name "setup.exe".
- **Wmplgin1.exe:** Windows TIF viewer to be able to view tif files directly in the browser.

Select a suitable program for your operating system and start the installation. Follow the instructions given by the installation program.

Configuration

The configuration of the program is carried out by an administrator. They can access the configuration page from any computer within the network, if they have the relevant access password. The following properties can be set on the configuration page:

- Access rights for individual users,
- Paths for print jobs, response messages and job logs,
- Password for the configuration page.

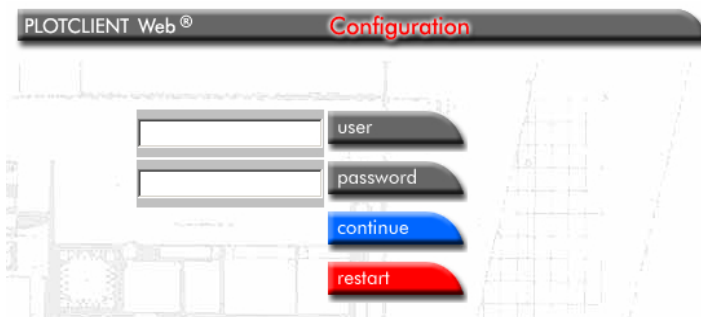
Open the configuration page

You have two possible options for opening the configuration pages in the browser. Select the menu command “Start – Programs – Plot Controller – Admin – Plot Controller Web Admin” on the server or enter the following configuration page address in the address line of your browser:

`http://127.0.0.1/pcweb/config/pbconfig.pbx`

The numeric IP address of the “loopback interfaces” (127.0.0.1) can only be given at the server. To open the configuration page in the browser of another computer within the network too, you can also enter the name of the server.

The start page looks like this:



After opening the page you must enter a user name (user) a password. The standard for the user name and password is the

word "admin". You should change this password (see chapter "administrator password"), to prevent other people from accessing the administrator pages. Click on the "Continue" button to confirm the input.

Access rights for users

Setting up a new user and assigning their access rights is simple. Click once on the menu item "User" and then on "New" and enter the data for the new user.



Note: If the "New" button does not appear, check whether the maximum number of users has already been reached. Normally there won't be any user limitation but in some countries technical specifications may differ from standard. In that case please contact your dealer or support technician.

- **User name**

Enter the name under which the new user is to use RW-470 PLOTCLIENT WEB.

- **Customer**

Here you can enter e.g. the complete name of the firm or private person.

- **Account**

In this field the account number of the client is entered. This can be an account number, which you assign in-house or the receiver of the invoice in-house.

- **User can change account info**

If you want to allow the new user, e.g. to be able to change the cost center, activate this option.

- **User can change password**

If the user can change their password, activate this option.

- **Set user's jobs in queue to wait**

This option is particularly advantageous for users who want to send their print jobs via the Internet. Here the administrator can convince themselves whether the print data has arrived complete and without errors before printing.

- **Password**

When changing the password, please enter it twice. If the password has already been issued or is to be changed, the program also accepts empty entries! I.e., no entry here means a empty field in the log in!

As soon as you have entered all the information, quit the set up of a new user with "Accept".

With respect to setting up users, ensure you follow the following:

1. The access of individual users is controlled using individual IDs and passwords.
2. Each user that wants to produce jobs for RW-470 PLOTCLIENT WEB via the web interface must be known to the system.
3. Group IDs for several users must be strictly avoided, as individual settings and job parameters can be lost.
4. Access is possible immediately following the set up of a user ID with password, using this ID.

Deletion of individual user IDs is also carried out via the configuration page. Please note that all individual settings remain in the folder „\\RW-470\\PLOTBASE\\PCWeb\\config\\user\\<id>.*“ on the PC where your RW-470 PLOTCLIENT WEB has been installed and must be deleted manually. Also the entries in the upload folder are not affected by changes in the user configuration.

- **Delete user**

To delete a user is very simple. Click once on the menu item "User", select the user to be deleted in the user list and then click once on "Delete".

Set spool path (upload)

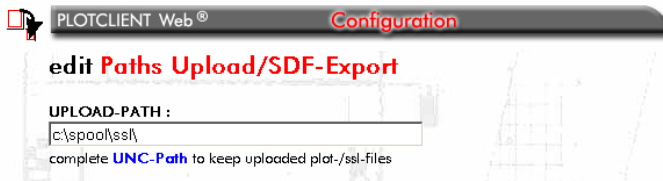
The job and drawing files of RW-470 PLOTCLIENT WEB are stored in a local spool folder. This is normally the subfolder c:\spool\ssl. This is where both the SSL files required for RW-470 PLOTBASE, and the drawing data assigned to each job are stored in individual subdirectories. To work correctly, it is very important that you enter the complete local path. The spool paths, which are given for RW-470 PLOTCLIENT WEB and for RW-470 PLOTBASE must show the identical folder. Use of UNC path details can be used if RW-470 PLOTBASE and RW-470 PLOTCLIENT WEB are installed on different computers.



Attention: The Apache Web Server must be logged on as a service with user rights where RW-470 PLOTBASE is located on another computer.

Proceed as follow to enter the spool path:

1. Click on the "upload" button. The following window opens:



2. Enter the spool path; enter the path that leads from RW-470 PLOTBASE to the spool path and confirm the entry with "accept".

Additional settings (misc.)

By clicking on the “misc.” button, you open the following configuration window:

The screenshot shows a web browser window titled "PLOTCLIENT Web® Configuration". The main heading is "edit miscellaneous parameter". The form contains the following sections:

- RESPONSE-QUEUE-PATH/AUTOFRESH :**
 - Text input: c:\spool\response\
 - Text: complete **UNC-Path** for queue/response-files.
 - Text input: 10
 - Text: sec. Auto-Refresh-TIMEOUT
- LOG INFO ON NEW JOB :**
 - ☐ log job-info
 - Text input:
 - Text: complete **UNC-Path** for shared printer/log file
 - ☐ append Form Feed (FF)
- Language**
 - Text: Please choose your favorite language:
 - Dropdown menu: english

At the bottom, it says: "RW-470 PLOTCLIENT WEB Version 3.0.125 Configuration, 16.08.2001 / PC-80000000-46059 -1-25"

You can use this configuration window to set a response path, an auto refresh timeout, a path for log files, and options for the print out of the log file and a language for the configuration pages. The individual settings are described in the following.

- **Response-Queue-Path**

Enter the path for the response folder, which is set up by RW-470 PLOTBASE. The data in this file evaluates RW-470 PLOTCLIENT WEB, to display the current queue-status of the print jobs. Enter the UNC-path as RW-470 PLOTCLIENT WEB is not on the same computer as RW-470 PLOTBASE.

- **Auto refresh Time**

As the browser pages displayed are static, the response view should be updated occasionally. If you carry out this update with auto refresh, this is repeated after the interval that you set here. Enter the time in seconds.

- **Log Info on New Job**

You can have a log file produced, in which the most important editing processes carried out for a job are stored. If you want this

option, activate the check box in front of "log job info" field. Now enter a path for the file (e.g. c:\spool\pcweblog.txt) in this field. If the file cannot be found in a folder of the computer on which RW-470 PLOTCLIENT WEB is, but is to be saved on another computer, use a UNC path entry. If you want to print off this log-file and the log-file information for each job is to be printed on a separate page, activate the option "Page break (FF) attach" by clicking on the check box.

- **Language:**

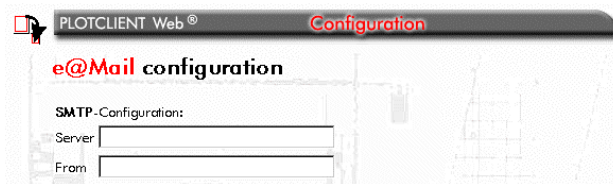
Select a language for the configuration from the list filed. The selected language will also be used for new users initially. Each user can however also change the language again.

After you have entered all these entries, confirm this by clicking on "accept".

E-mail (e-mail)

The user can have a message sent by e-mail about whether the print job has arrived at RW-470 PLOTBASE, whether errors occurred while processing the print job or whether the print job was successfully processed. For this, a mail server must be installed. Proceed as follows:

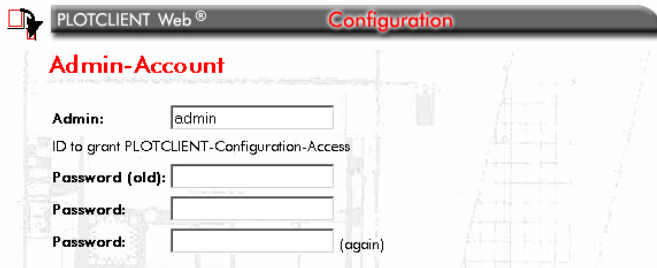
1. First open the corresponding configuration window by clicking on "e-mail":



2. Enter the name of your in-house mail server in the first field. Ask your network administrator if you don't know.
3. Beneath this, enter an e-mail address, known in the network. We recommend that you use the e-mail address of the RW-470 PLOTCLIENT WEB administrator.
4. Confirm the entries with "accept".

Administrator password (admin)

Access to the configuration pages is usually via the fixed defined “admin” account using the password “admin”. The user ID and password can be set individually on the following page, which you open by clicking on the “administrator” button:



The screenshot shows the 'PLOTCLIENT Web' configuration interface. At the top, there is a dark header bar with 'PLOTCLIENT Web' on the left and 'Configuration' on the right. Below the header, the title 'Admin-Account' is displayed in red. The form contains the following fields and labels:

- Admin:** A text input field containing the value 'admin'.
- ID to grant PLOTCLIENT-Configuration-Access:** A label positioned below the Admin field.
- Password (old):** A text input field.
- Password:** A text input field.
- Password:** A second text input field, with the label '(again)' positioned to its right.

Enter the user name and the password in the fields. The password must be confirmed. All entries are confirmed with “accept”. The access ID of the administrator does not permit access to the job processing. As the job editor you need your own user rights. It is not possible to set up several different administrator accesses.

To reset the set administrator access to the installation defaults (admin/admin), the password file „passwd” in the sub folder „\\RW-470\\PLOTBASE\\PCWeb\\config\\” must be deleted.

Prepare print jobs

In the editing windows of RW-470 PLOTCLIENT WEB, you can collate print jobs, determine the print parameters and check the status of the print jobs sent.

Plot sequence

This chapter first explains how you can purposefully prepare a job. The following chapters contain a detailed explanation of the individual steps, which are now listed in abbreviated form:

1. Start a browser program. Open the start page of RW-470 PLOTCLIENT WEB by entering the address in your browser.
2. Log in using your user name and password.
3. First choose the print parameters for the job. These are general properties, like the settings for a security print or entering an e-mail address for notification of the successful completion of a job. The job name is issued automatically.
4. Now choose the print parameters, which are to apply for all entries (drawings and documents). For example, you determine the format of the drawings or the medium, on which the plots are to be printed. These settings can however be changed for new entries. Subsequent change is possible for each individual entry.
5. For HPGL or Calcomp drawings, you can enter the pen settings for the plotter.
6. Insert the job entries individually or simultaneously.
7. The job can now be sent to RW-470 PLOTBASE.
8. With the aid of a status page, you can check whether the job has been transferred to RW-470 PLOTBASE and inform yourself of the status of the job processing. You are automatically informed of the status by e-mail, if you have set this in the print parameters for the job.

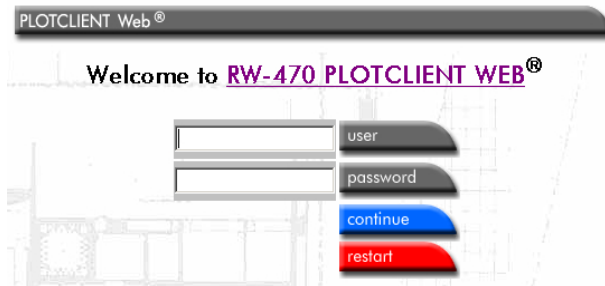
Open and log on

Start the browser and open the start window, by typing the following address in the address line of your browser:

`http://<Server>/PCWeb/`

Instead of the expression <Server>, enter the server name or IP address of the computer, on which RW-470 PLOTCLIENT WEB runs and start the query by pressing the return key.

The following window is opened:



Enter the user name and the password. Only users that have been previously entered by the administrator via the user configuration are permitted access. The username "demo" and password "demo" are preset. Please ask your administrator, which user name and which password they have assigned for you. Confirm the details by clicking on "continue". If you have entered wrong information, simply click on "restart" an. The fields are now empty again and you can enter other information.

Settings for the job (job parameters)

A job includes all the drawings and documents, which are sent under one job name to RW-470 PLOTBASE and later issued by the plotter in one print run. The individual drawings and documents in the job are called entries.

The job name is assigned automatically. It consists of the user name and a four-figure consecutive number, e.g. Miller-0001.

You can set the general properties of the job like e.g. the number of job copies or activation of a test plot in the window "job parameters". It is opened by clicking on the button of the same name.

edit job-parameter (user: demo)

☒ start here

Customer: Demo User	change password:
Account: Demo Account Information	old: <input type="text"/>
Username: demo	new: <input type="text"/>
Language: english <input type="button" value="v"/>	again: <input type="text"/>

Distribution: <input type="text"/>	<input type="checkbox"/> Job Flag Sheet <input type="text"/>
---------------------------------------	---

Locked Print: <input type="checkbox"/>	Locked Print password: <input type="text"/>
--	---

Job Copies: <input type="text" value="1"/>	Collate: yes <input type="button" value="v"/>	Job Platter: Any Platter Available <input type="button" value="v"/>	Sample Print <input type="checkbox"/>
Output: Front <input type="button" value="v"/>	Delete <input type="checkbox"/>		

Notes:

e-mail:
☐ notify **transmission** to:
☐ notify **success/error** to:

If you have activate the check box in the above “start here”, this page is opened straight after the log-on.

In the uppermost box you will see the following information and possible settings:

- **Customer**

This is the client for whom the user has prepared the job. This information was assigned by the RW-470 PLOTCLIENT WEB administrator and cannot be changed.

- **Account**

This information is used for billing, where this is to be produced. If the administrator has released this field for editing, you can change the presets entered by the administrator.

- **User name**

In this field the name of the employee who collated the plot job and sent it for printing to RW-470 PLOTBASE is displayed. This name can only be changed by the administrator of RW-470 PLOTCLIENT WEB.

- **Language**

Choose the language from the list field, which you want to use in this program. The language used by the administrator in the configuration menu is preset.

- **Change password**

You can change your password, if the administrator permits editing. First enter your old password, enter a new password in the field below and confirm the new password by entering it again in the bottom field.

The other settings are now explained in sequence:

- **Delete after plot**

The job is deleted following successful plotting.

- **Distribution list**

Enter which persons are to obtain a copy of the job.

- **Job flag sheet**

Activate the "Print JobFlagsheet" field by clicking on the check box, if you want a cover sheet to be printed with all the information in an overview. You can enter your own additional information in the text field, which is also printed on the cover sheet. Also, you can enter further information in the "Notes" field. You should not use the following characters: „ " < > ; : \

- **Copies**

Enter how many copies are to be printed.

- **Collate**

Activate this field if the plot job is to be printed out collated. Collated means that the entries of an order are printed out as follows when several copies are required:

E.g. you have the entries 1, 2 and 3. Three copies of each are to be produced. If you choose "1-2/1-2" from the list field, the printouts are in the sequence 1, 2, 3 - 1, 2, 3 - 1, 2, 3. If the printout

is not sorted, the complete number of entries is printed out: 1, 1, 1 - 2, 2, 2 - 3, 3, 3.

- **Job Plotter**

The RW-470 plotter is preset. As a standard, no other plotter is available for selection.

- **Locked print**

As soon as the security option is selected in a Client program, nobody can view and print this job, as long as the correct User ID has not been entered. The job has the status "Password". This function is for example if the drawings are to be kept secret. The print jobs can only be printed by the user that was queried with respect to the Windows NT user password before plotting. As soon as the job has been plotted it is automatically deleted.

- **Sample print**

Activate this option if you want to check the quality of a print. Only the first set of copies is plotted. Print out of further sets of copies is stopped, so that you can examine the quality of the print. You are then asked, whether you wish to continue with the print out of the remaining entries or abort the job.

- **Output**

You have two possible ways to have your plots issued by the plotter: Front (output at the front), rear (output at the rear).

- **Notes**

This field is free for your notes. You should not use the following characters: „ " < > ; : \

- **email-configuration**

You can instruct this program to automatically send an e-mail to the client. There are two options: Transmission and Success/Error. An e-mail notification "Transmission" means that an e-mail has been sent, if the RW-470 PLOTCLIENT WEB server has successfully included an entry in the job list. An e-mail notification "Success/Error " means successful print out or a defective processing of the job is reported. If you want to receive an e-mail, enter the e-mail address in the respective field and activate the respective option by clicking on the check box.

After you have entered all the settings, confirm them by clicking on the “accept” button.

Print parameters for entries (entry defaults)

The print parameters can be fixed in the “entry defaults” window. It is opened by clicking on the button with the same name.



Attention: The print parameters only apply for newly added entries. If you change the print parameters in the middle, they only apply for the new entries, but not for the existing entries.

General print parameters

- **Formats**

In this section of the tab you select the drawing format, in which the drawing is to be printed. Apart from the “Original”, “Window” and “Percent” options, you will also find the drawing formats: ISO A/B/C, ANSI A-E and ARC A-E.

In the format setting “Original” the program obtains the format size from the original file of the drawing. This is the preset.

If you use the format setting “Window”, you can freely set the values for the format width and format height, whereby the style sheet is set by the window value. The freely settable settings refer both to the alignment as well as the format size and the format margin:

If you choose one of the standard formats ISO, ANSI or ARC, you can accept the dimensions or freely change them according to your requirements:

You can use the “Window”, if you set a standard format e.g. ISO A0 and want to extend the format width and format height. First set the required format and then click in “Window”. You can now change the format width and height values to meet your requirements.

If you want to scale the drawing smaller, activate "Percent". You can now enter a value between 1.00 and 999.00 for the format width and height.

X = format width

Y = format height

If you want to retain the size ratio of the drawing, activate the option "Maintain aspect".

- **Border**

If you want a white border around the drawing plot, activate the "ON" field and enter the required spacing for all side borders. You can choose between the size units mm, inches and pixels.

- **Copies**

You can enter any number of copies between 1 and 999 to be printed by the job.

- **Media Source**

You can select one of the plotter rolls offered. In addition, you can also choose the "automatic" or "bypass" options. The "automatic" option means that the plotter itself selects a suitable roll, which corresponds to the given format. The "bypass" option means that you feed the print medium in the input tray yourself.

- **Media Type**

Use this menu to select which type of media the drawing is to be printed on: Any, Paper, Transparency, Foil or Film. The selection depends on what roll of medium you have fed in the plotter.

- **Position**

With the "Media Position" you set the symbolic position on the paper, if the image is to be plotted on a larger paper format. E.g. If you have a ISO A4-drawing, which is printed at its original size on ISO A1, you can enter where the drawing is position on the larger sheet for printing.

- **Mirror**

In this area you can set whether the drawing is to be mirrored or not during plotting. You can choose from four options

OFF: The drawing is not mirrored during plotting.

X: The drawing is mirrored horizontally.

- Y: The drawing is mirrored vertically.
 XY: The drawing is mirrored about both axes simultaneously;
 equates to a 180° rotation.

You usually use these settings if the drawing has been scanned and saved with a mirror inversion. This is especially important if a transparency has been scanned with mirror inversion to increase the contrast

• Rotate

Here you can set whether the drawing is to be rotated or not during plotting. Rotations of 0°, 90°, 180° and 270° are possible. When set to "Auto", RW-470 PLOTCLIENT WEB rotates automatically if this results in less waste paper.

• Cut Mode

The selections available are "Synchro" and "Format". If you choose "Synchro", the plotter cuts the drawing immediately after the last data has been printed. This results in optimum paper or medium use, because it produces the smallest amount of waste. On the other hand, if you want the printout to always be cutted to a standard format, irrespective of how much space remains unused, activate "Format". The plotter then always cuts to the next largest format. This can be a disadvantage if e.g. a drawing is only around 0.5 cm larger than a ISO A5 page is printed on a ISO A4 page and thus almost 50 % of the sheet remains unused. The advantage is that some folders require exact formats and you can match them using the "Format" setting.

• Pens

Set the pen settings for the drawing. These can be the default settings or individually saved pen settings.

Stamp settings

The screenshot shows a 'Stamp' dialog box with the following elements:

- Text:** A text input field containing the word 'Stamp'.
- Stamp Mirror:** A dropdown menu set to 'off'.
- Font Size:** A dropdown menu set to '24'.
- Stamp Macro:** A list box containing 'COUNT', 'DATE', 'FILENAME', 'FILETITLE', and 'PATH'.
- Stamp Mode:** A dropdown menu set to 'opaque'.
- Stamp Position:** A dropdown menu set to 'bottom right'.

You can enter the following settings:

- **Stamp Text**

Enter the stamp text. You should not use any of the following characters: „ “ < > ; : \

- **Stamp font size**

Choose a font size from the selection list.

- **Stamp Macro**

You can insert a macro in the stamp text. If for example you want a date in a stamp, choose the macro with the same name. If you select a macro, it is inserted at the end of the stamp text. If you want the macro to be inserted in the middle of the stamp text you can insert the macro command yourself:

- Enter page number: <N>
- Enter date: <D>
- Enter file name: <F>
- Enter time: <T>
- Enter user: <U>

- **Stamp job**

The stamp on the drawing can be covering, inverted or transparent. In an inverted stamp the color of the text and the background are reversed. The original black text is then white and the rest of the background is black. In a transparent stamp, only the black text can be seen and there is no background.

- **Stamp Position**

Select a stamp position on the drawing from the list field.

After you have entered all the settings, you must confirm them by clicking on the “accept” button.

You can make subsequent changes for individual entries. Read chapter “Entry list”, Page 118.

Pen settings (pen settings)

You can determine individual pen assignments for HPGL and Calcomp-drawings. Open the relevant page by clicking on the “pen settings” button.

You can save several, user-specific pen settings, by entering a name in the pen descriptions field. You can call up this name

and thus the pen settings in the print parameters ("entry defaults"). The selection is made in the "pens" list field.

HPGL

- **Step size/cm**

The standard is 400 steps per centimeter. The RW-470 PLOTCLIENT WEB therefore enters 400 as a default value, which does not normally have to be altered. Nevertheless, it is sometimes advisable to ask the customer what step number per centimeter they are used to working with to guarantee plot consistency. Furthermore, it can be necessary to make a change to reduce the DPI, to release more system memory for large drawings:



Attention: If you enter a larger value, you will obtain a smaller drawing: The entry 1 equates to 0.25 %. Example: if you enter 401, the drawing is reduced to 99.75 %.

- **Scale Pens**

Activate the check box, if the pen widths are to be scaled with the drawing. To avoid possible loss of information during the print-out, you must ensure that you have entered at least one minimum pen width in "Pen settings" if the drawing is to be reduced in size and at least one maximum pen width if the drawing is to be enlarged

- **Clipping**

The clipping command removes the white edges on the border of the drawing. Most plotter languages differ from each other in many ways to a greater or lesser extent – including with respect to the section, which, put simply, refers to the paper size.

This fact means that undesirable printing results are obtained, if a drawing is only printed in sections or in the most unfavorable case a white sheet of paper comes out of the plotter.

The "Clipping" function is considered in the context of the widely used reference plotter "HP DesignJet 650 C / C 2859b": If you

activate the check box, the drawing is printed in exactly the same way as it was printed on the "HP DesignJet" plotter. However, undesirable printing results can result, if the plotter language of your plotter differs greatly from that of the "HP DesignJet".

If you deactivate the function, RW-470 PLOTCLIENT WEB looks for the drawing dimensions itself and thus guarantees that the whole drawing is plotted

- **Pen Source from File**

If you activate this field, you instruct the plotter to use the pen width information entered in the SSL file for the entry and not the settings from the "Pens" tab. If no pen widths are defined, the program uses your settings.

If you do not activate it, the program always uses your settings.

- **Pen Colors from File**

If you activate this field, you instruct the plotter to use the pen color information entered in the SSL file for the entry and not the settings in RW-470 PLOTCLIENT WEB. If no pen widths are defined, the program uses your settings.

If you do not activate it, the program always uses your settings.

- **Size**

Enter the pen widths directly via the keyboard in the box left of "Size". Activate the pen required in the list above and enter the new pen width. The valid size unit is "mm".

If you want to "remove" a pen, you can enter the pen width as "0" or the pen color as "white".

- **Grey (%)**

The pen color is selected directly beneath "Size". Activate the required pen in the list above and enter the new gray scale value.

If you want to "remove" a pen, you can enter the pen color as "white" or the pen width as "0".

- **Change**

With "Change" you fix the pen settings you have just edited. The program saves your settings.

Calcomp

- **Step size/cm**

The standard is 800 steps per centimeter. The RW-470 PLOTCLIENT WEB therefore enters 800 as a default value, which does not normally have to be altered. Nevertheless, it is sometimes advisable to ask the customer what step number per centimeter they are used to working with to guarantee plot consistency. Furthermore, it can be necessary to make a change to reduce the DPI, to release more system memory for large drawings:



Attention: If you enter a larger value, you will obtain a smaller drawing: The entry 1 equates to 0.125 %. Example: if you enter 801, the drawing is reduced to 99.875 %.

- **Synchronization**

Synchronization is used to check the completeness of the Calcomp files, which have been sent from the application program. Four pieces of information are used for the synchronization settings:

- Sync-Char
- End-Char
- Double Sync
- Checksum

You can either let RW-470 PLOTCLIENT WEB determine the values or you can enter the necessary settings yourself. If the program is to determine the values, activate "Auto detection".

We recommend that you do not alter the standard values if you want to enter the settings yourself. Should you nevertheless want to make a change or to find out more on the topic, compare the settings with those in your CAD system or read the following section in the "Calcomp Inc." manual:

"CALCOMP - ONLINE REFERENCE MANUAL" in the section "Data Message Format".

The standard settings are:

Sync character:	2	→ [setting from 0 to 127 possible]
End character:	0	→ [setting from 0 to 31 possible]
Double Sync:	OFF	
Test sum:	OFF	

The following two examples serve as possible comparisons:

- **AutoCAD12:**

Sync character:	22
End character:	13
Double Sync:	ON
Test sum:	ON

- **FordCAD:**

Sync character:	2
End character:	3
Double Sync:	OFF
Test sum:	ON

- **Scale Pens**

Activate the check box, if the pen widths are to be scaled with the drawing. To avoid possible loss of information during the print-out, you must ensure that you have entered at least one minimum pen width in "Pen settings" if the drawing is to be reduced in size and at least one maximum pen width if the drawing is to be enlarged

- **Pen Source from File**

If you activate "User", the program will always use your settings. If you activate this field, you instruct the plotter to use the pen width information entered in the SSL file for the entry and not the settings from the "Pens" tab. If no pen widths are defined, the program uses your settings.

If you do not activate it, the program always uses your settings.

- **Pen Colors from File**

If you activate this field, you instruct the plotter to use the pen color information entered in the SSL file for the entry and not the

settings in RW-470 PLOTCLIENT WEB. If no pen widths are defined, the program uses your settings.

If you do not activate it, the program always uses your settings.

- **Size**

Enter the pen widths directly via the keyboard in the box left of "Size". Activate the pen required in the list above and enter the new pen width. The valid size unit is "mm".

If you want to "remove" a pen, you can enter the pen width as "0" or the pen color as "white".

- **Grey (%)**

The pen color is selected directly beneath "Size". Activate the required pen in the list above and enter the new gray scale value. If you want to "remove" a pen, you can enter the pen color as "white" or the pen width as "0".

- **Change**

With "Change", the pen settings you have just entered are accepted as the new pen settings. The program saves your settings.

Add local entry, add multiple

A job consists of one or several entries (drawings, documents). Before you send a print job to RW-470 PLOTBASE, you must first select one or several entries for the job.

For each entry, which you add to the job, the current print parameters ("entry defaults", Page 107) are used. Changes to the print parameters, which you make on the page "add local entry" only apply for this entry.

You have several possible options to add job entries. You can add

- A local file
- A Zip-archive with one or several drawings
- Several local files at once
- A Zip archive with one or several SSL-Jobs

The options are described in the following chapters.

Local files or ZIP-Archive (add local entry)

You can add local files, which you have stored within your Intranet or computer to a job. Another option is to add ZIP archive that contains one or several drawings. RW-470 PLOTCLIENT WEB can unpack the Zip archive and include the drawings as entries in the entry list.

First open the corresponding editing window by clicking on the button "add local entry". The window that you used to set the print parameters opens. Above the settings there is now an additional field, in which you can enter the path to a drawing file. Alternatively, you can also click on the "Browse"-button and then select a file from the opened dialog. It is possible that the file selection has the file extension *.htm. Change this to *.zip so that you can see the ZIP-files. Confirm the selection by clicking on the "Open" button.

If you want to check whether you have selected the correct file, you can first view it by pressing the "View" button. It can be necessary to add additional software to be able to display different image formats.



Note: If you already have a plug-in for displaying tiff files, you can view the corresponding files in the browser window immediately. The installation program of a plug in is located in the main folder of the RW-470 PLOTBASE under: \\<Server>\Tools\Plugins\wmpugin1

You can now make several settings for this entry on the original page or you simply confirm the print parameters with "accept". The job list is opened automatically. If you want to send the job immediately to RW-470 PLOTBASE, click on "submit job". Otherwise you can also change the settings here (see chapter "Entry list", Page 118).

ZIP-Archive with SSL-job

Processing such a file lends itself if a client has produced an SSL-job and wants to send it to a firm in compressed form (ZIP) via the Internet, to have it printed there.



Note: An SSL-file contains print parameters for the print out, which can be read and interpreted by the RW-470 PLOTCLIENT WIN and RW-470 PLOTBASE programs. However, only SSL-jobs that have been previously produced by the client in RW-470 PLOTCLIENT WEB can be read. This program can produce compressed SSL-jobs.

The firm can accept the SSL job in the ZIP archive SSL-job with the aid of RW-470 PLOTCLIENT WEB and pass it directly on to RW-470 PLOTBASE. There the print job is prepared for the print out. Finally, the print out is plotted on the plotter RW-470.

To select such ZIP-archives proceed in RW-470 PLOTCLIENT WEB as follows:

Open the relevant editing window by clicking on the “add local entry” button. The window is opened, which you already know from when you set your print parameters. Above the settings there is a field, in which you can enter the path to the ZIP-file. Alternatively you can also click on the “Browse”-button and then select a file in the dialog that is opened. Confirm the selection by clicking on the “Open” button. A ZIP archive is recognized automatically. Several print parameters are already set in the jobs. Additional settings are not accepted.

Several local files (add multiple)

If you want to add several files that you have stored in a folder of the Intranet to the entry list at once, select the function “add multiple”.



Attention: Java Runtime Environment must be installed, so that the functions described above can be carried out. Ask your administrator, if an error occurs.

After clicking on “add multiple” you will see the following window:



If you want to transfer all files from a folder or several files from various directories at once, first choose "Add folder", then find the folder in the file selection. A "dummy_file" is shown as the file name. After you have clicked on "Open", the files contained in the folder are then listed in the window.

If you also want to add a single file, click on "Add file", find the file in the file selection dialog and confirm with "Open".

You can also delete individual files, by clicking on the files concerned from the list first and then clicking on "remove".

If you have selected all the files, click on "upload", to send all the listed entries to the RW-470 PLOTCLIENT WEB. Then press to "Continue", and to add the entries to the entry list. You can select individual files with "select", to set individual print parameters. The exact procedure for setting the print parameters is given in chapter "Print parameters for entries (entry defaults)", Page 107.

If you now want to send the job, click in this window on "submit job".

Entry list

The list of the current entries appears frequently, after you have executed the commands "accept", "cancel", and "continue". You can also open the entry list at any time by clicking on the button with the name "RW-470 PLOTCLIENT WEB".

For new jobs without entries, a corresponding information text appears instead. The other functions of this window are described in the following chapter.

Edit and delete entries (select, delete)

Until you send off the whole job, it is always possible to change the settings of the individual job items again. You can no longer change the entries file (the local drawing file), as there is already a copy on the RW-470 PLOTCLIENT WEB Server. To change the print parameters for an entry proceed as follows:

1. Open the entry list, as described in the previous chapter.
2. Select an entry from the list.
3. Choose the function "select".
4. You can now change all the print parameters for the print out, as described in the chapter "Print parameters for entries (entry defaults)", Page 107.

To delete an entry, mark it in the list and then click on the "delete" button. If you want to delete all the entries in the list, click on "Delete all".

Send job (Submit job)

If you have collated all the entries for the job and have set all the print parameters, you can send the job to RW-470 PLOTBASE, so that it is printed.

Open the job list by and click on the button "submit job".



Attention: After submitting a job, you can no longer edit the individual entries.

Query current job status (queue status)

Open this page via the “queue status” button. This page displays the status of the print jobs that have already been transferred to RW-470 PLOTBASE.

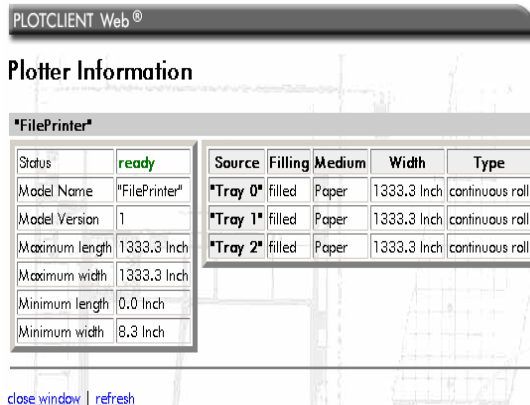
With the aid of the status information you can inform yourself of possible problems or errors during the plotting of the job concerned. There are two status levels:

- OK job has been plotted
- Queued job is in the job queue

To see the current status, you can either up date the page yourself by clicking on “refresh” or you can activate automatic update by clicking on “auto refresh”. In the latter case the page is always updated after a certain interval.

Plotter status (plotter status)

If you want to view the plotter status between times and e.g. want to know how much material is left on the plotter rolls or need general plotter information, open the “plotter information” window via the “plotter status” menu item:



The screenshot shows the 'PLOTCLIENT Web' interface. The 'Plotter Information' window is open, displaying details for the 'FilePrinter'.

Plotter Information

"FilePrinter"

Status	ready
Model Name	"FilePrinter"
Model Version	1
Maximum length	1333.3 Inch
Maximum width	1333.3 Inch
Minimum length	0.0 Inch
Minimum width	8.3 Inch

Source	Filling	Medium	Width	Type
"Tray 0"	filled	Paper	1333.3 Inch	continuous roll
"Tray 1"	filled	Paper	1333.3 Inch	continuous roll
"Tray 2"	filled	Paper	1333.3 Inch	continuous roll

[close window](#) | [refresh](#)

- **Filling**

Here you see the remaining filling of the medium. It is shown by following five steps: 0 %, 25 %, 50 %, 75 %, 100 %.

- **Medium**

Shows medium on the roll.

- **Width**

Shows width of the medium so that you will know, which format is given.

- **Type**

Here you get the information if tray has manual feed, medium roll or cut sheet tray.

Incomplete jobs

Each job remains stored in RW-470 PLOTCLIENT WEB until it has been sent. It is therefore possible that after logging on, you will be given the opportunity of reediting a job that has not yet been sent.

A job remains incomplete until all the local drawing data has been correctly transferred. The additional menu item "submit job" only appears for complete jobs.

Corrective maintenance

This chapter is primarily directed at the program administrator. Several typical editing and system errors are listed. You are also provided with suggested solutions.

- **Log-on not possible**

Check the user name in the configuration. When logging-on, the program is case-sensitive both for the User-ID as well as the password – i.e. there is a difference between upper case and lower case letters! If in doubt, ask your administrator.

- **After entering the ID and password, the Web browser fails to react and waits...**

... on a reply from the server. This is a sign that the program cannot correctly access the license file. Check the correct installation of the dongle. A further reason for this lack of response can be that the Apache Web Server, which is required for the operation of the RW-470 PLOTCLIENT WEB, is running with insufficient rights. Access to the license file is only possible, if the Apache Web Server is registered as the system service or as a service with user rights (of a user of the administrator group). A more precise explanation is given in the chapter “installation” of the RW-470 PLOTBASE – manual.

- **No SSL-file is produced; locale files can not be transmitted (upload pending)**

Check the folder-configuration for the upload path. It is possible that there are no write access rights for the directories given. For access via UNC-paths, the Apache Web Server must run as a service with user rights. More information about setting up the Apache Web Server is given in chapter “installation” of the RW-470 PLOTBASE – manual. The last note refers to the specification of local paths and mapped drives, which are accessed with the aid of UNC notation.

- **No mail messages are sent**

It is possible that the server name or the IP-address of the SMTP server has not been set correctly. Check, if an e-mail address has been given.

Part V – RW-470 PLOTCLIENT MAC

Installations

Two steps are necessary before you can begin printing with the printer driver of the Macintosh operating system Mac OS 9.x. Installation and configuration of the printer driver as well as entering the print defaults in the print dialog.

To install the printer driver for Macintosh, you have to install on two computers. You have to install on the Windows 2000 computer of the RW-470 PLOTBASE server and on the Macintosh PC.

Installations on Server PC with Windows 2000

- **Print service for UNIX**

1. Open "Start – Settings – ControlPanel – Add/Remove Programs – Add/Remove Windows Components – Other Network File and Print Services – Print Service for UNIX".
2. Change the settings so that the print service for UNIX automatically runs following each new start of the computer. To do this, go to the Desktop and open "My Computer" with by clicking on the right-hand side mouse button and select menu item "Manage – Services and Applications – Services".
3. Open "TCP/IP Print Server" with a double-click and set the "Startup Type" to "automatically".

- **Installation RW-470 WINPRINT:**

1. Start the Setup from the folder `\\<Server>\tools\WINPRINT`
2. Enter "PbPort" as the port name.
3. Enter "WINPRINT" as the printer name.
4. Enter "WINPRINT" as the shared name.
5. Specify the spool folder of the lpr-print system with "c:\spool\cfg" as via "Start – Settings – Printers – WINPRINT – Properties – Ports – Configure Ports"

Installation on the Macintosh computer

1. Start your Internet browser.
2. Open "http://<Server>/tools/PLOTCLIENT_MAC".

3. Save the file "RW-470.ppd" with Drag & Drop on the Macintosh Desktop.
4. Open the "New" window via "Macintosh HD – Application – Utility".
5. Select "LaserWriter 8".
6. Select "Create Printer Symbol for TCP/IP printer" and confirm with "OK".
7. Change the PPD file in the file "RW-470.ppd" already saved on the Macintosh via the button "Change".
8. In the same window, change the TCP/IP printer. Under "Queue", enter the host name or the IP-address of the computer, on which RW-470 PLOTBASE is running. Enter the "Printer address" as the shared name that you gave during installation of WINPRINT. Confirm with "OK".
9. Finally, click on "Create" and save the "Printer symbol", if possible under the name already given.

You can use the printer driver as soon as you have completed the installations on the server RW-470 PLOTBASE and on the Macintosh computer.



Note: Before updating the software, please delete the old ppd-file from the Macintosh system folder first.

Print jobs and presets

After completing the above installations, you can send print jobs from any software to the plotter RW-470 via RW-470 PLOTBASE. Whenever you want to send a print job, e.g. from a graphics program, open the menu item "File – Print". Enter the print parameters to be sent with the plot. If you always want to use the same print parameters you can save them as presets or default values. Open the "General" drop down menu to reach the three menu items used to set the print parameters for the RW-470 PLOTCLIENT MAC:

- MainOptions 1
- MainOptions 2
- JobOptions

The following three sections describe how to set the print parameters.

MainOptions1

Send a print job via the menu item "File – Print". Open "Main Options1" via the drop down menu "General". There you can alter the following settings:

- **Scale to format**

Select the drawing format for the plot. Apart from the "Original" option, you can choose from the following formats: ISO A/B/C, ANSI A-E and ARC A-E.

If you select the "Original" format setting, the program fetches the format size from the original drawing file. This is the preset.

- **Rotate**

Set whether the drawing is to be rotated or not when plotted. Rotations about 0°, 90°, 180° and 270° are possible. If you select the setting "automatically", RW-470 PLOTBASE automatically rotates the drawing if this results in less paper wastage.

- **Mirror**

Enter whether the drawing is to be mirrored or not when plotted. The individual fields mean the following:

- Off: The drawing is not mirrored when plotted.
X: The drawing is mirrored horizontally.
Y: The drawing is mirrored vertically.
XY: The drawing is mirrored about both axes simultaneously;
equates to a 180° rotation.

You usually use these settings if the drawing has been scanned and saved with mirror inversion. This is especially important if a transparency has been scanned with mirror inversion to increase the contrast.

- **Invert**

If you activate this option with "On", the drawing is inverted, i.e. black and white colors are swapped or inverted.

- **Cut Mode**

The options available are "Format" and "Syncro". If you select "Syncro", the plotter RW-470 cuts the drawing immediately after the last set of data. This results in optimum paper or medium usage, because it produces the least waste.

If, on the other hand, you want the print out to always be cut in a standard format, no matter how much paper remains unprinted, activate "Format", thereby instructing the plotter to always cut the paper to the next largest format. This can be a disadvantage if e.g. your drawing is only around 0.5 cm larger than an ISO A5 Page, an ISO A4-Page is printed and so almost 50 % of the sheet remains unused. The advantage of this option is that some folders require exact formats and you can meet this requirement with the "Format" setting.

MainOptions2

The "MainOptions2" is also opened via the "General" drop down menu. Here you can alter the following settings:

- **Media type**

Select the type of medium to be used to print the drawing: Paper, Transparency, Film or Recycled Paper. The selection depends on the medium you have loaded on the rolls of your plotter RW-470.

- **Input tray**

You can select one of the plotter rolls listed. In addition, you can also select from the “Automatic” or “Manual” options. The “Automatic” option means that the plotter itself selects a suitable roll, which matches the prescribed format. The “Manual” option means that you feed the print medium into the input tray yourself.

- **Output tray**

You have two possible options to choose from for your plots on the plotter RW-470: Front (output at the front) and rear (output at the rear). If a folder is connected, the rear output is selected for the folder. The standard setting is output at the front.

JobOptions

In addition to the “MainOptions”, you have four other general options that you can use to define the print job parameters:

- **Sample print**

Activate this option if you want to check the quality of a print. Only the first set of copies will then be printed. The print off of further sets of copies is stopped, so that you can check the quality of the print off. Then you will be asked, whether you would like to continue with the print out or abort.

- **Priority**

This shows what priority the job has been given by the user: Waiting, Low, Normal, High. You can change the priority given here or set it to the highest level.

- **Locked Print**

If you have important print jobs, which others should not be able to see, activate the “Security” option. Your job can then not be viewed in RW-470 PLOTBASE by any other person. In the RW-470 PLOTBASE it only has the status “Password”. Print jobs secured in this way can only be printed off by you the user, as before printing, the computer asks for the password, which you have set here in RW-470 PLOTCLIENT MAC. The job is automatically deleted immediately after it has been printed.

- **Delete after plot**

If you activate this option, the job is deleted again by RW-470 PLOTBASE immediately after printing.

Part VI – RW-470 PLOTCLIENT LPR/FTP

RW-470 PLOTCLIENT LPR

With the lpr protocol or command, you can send print jobs to an RW-470 PLOTBASE via the RW-470 WINPRINT without having to use an application program. It also only requires a few presets and one command line. This printing option is especially intended for UNIX users.

Configuration on Server PC with Windows 2000

1. Start your Windows 2000 computer with RW-470 PLOTBASE as the administrator.
2. Open "Start – Settings – ControlPanel – Add/Remove Programs – Add/Remove Windows Components" and activate "Other Network File and Print Services".
3. Install RW-470 WINPRINT if you have not already done so.

After installing RW-470 WINPRINT, check that the printer driver has been released, or enabled, and check the spool folder as follows:

1. Open the printer window via "Start – Settings – Printers".
2. Use the right-hand mouse key to open the properties for WINPRINT and change to the "Sharing" tab.
3. Ensure that the printer driver is enabled as WINPRINT.
4. Change to the "Ports" tab, click on the WINPRINT line and open the "Spooler Path" window by clicking on the "Configure Port..." button.
5. Check that the spool folder is set as "C:\Spool\CFG".



Note: If you want to see the full file name of your print jobs in the RW-470 PLOTBASE jobs list, deactivate the "Use Short File Names" option.

Print jobs with lpr on Windows 2000

If you have entered all the settings described above, you can use the lpr command as follows to send print jobs to RW-470 PLOTBASE via the RW-470 WINPRINT:

1. Open the Prompt on the Windows 2000 computer of RW-470 PLOTBASE.
2. Change to the folder containing the files to be printed.
3. Enter the following command:

```
lpr -S %computer name% -P WINPRINT -o l <filename>
```

-S = server name
-P = name of the enabled plotter
-o l = binary mode

If you send a file without print parameters to RW-470 PLOTBASE, the RW-470 PLOTBASE basic settings are used. If you want to send your own print parameters with the plot, you have to first send the CFG file, which must have the same name as the graphic file, and then send the graphic file itself!



Attention: Always send the CFG or SSL file with your print parameters first, then send the graphic file. Otherwise there is a risk that RW-470 PLOTBASE begins to print your file before it has received your own print parameters for the print (CFG or SSL file).

Configuration on UNIX

1. Install the "General Network Services" – TCP/IP.
2. Then install the "BSD Print Spooling System". For SuSE>= V6.4 "LPROLD from Network Support"; TCP/IP, UUCP, Mail, News.
3. Go to the folder "C:\ RW-470\ PLOTBASE\ TOOLS\ PLOTCLIENT_LPR" on the Windows 2000 computer of RW-

470 PLOTBASE and copy the file "printcap_sample" to UNIX as the file "/etc/printcap".

4. Adjust this file "/etc/printcap" to your network environment. The end of the file should include more or less the following:

```
lp | remote printer on <IP_Of_RW-470Plotbase_PC>:\
:sd=/var/spool/lpd/lp:\
:rm=<IP_Of_Shared_Winprint>:\
:bk:sh:mx#0:
```

5. Restart the print service. For SuSE >= V6.4 "rcldpd restart".

Print jobs on UNIX using lpr

If you have entered all the settings described above, you can use the lpr command as follows to send print jobs to the RW-470 PLOTBASE via RW-470 WINPRINT:

1. Open the prompt on the UNIX computer.
2. Enter the following command:

```
lpr -P <printeralias_from_printcap> -l <filename>
```

RW-470 PLOTCLIENT FTP

You can use the ftp protocol or command to send print jobs to RW-470 PLOTBASE without having to use an application program. It also only requires a few presets and one command line. This printing option is especially intended for UNIX users.

Configuration on Server PC with Windows 2000

1. Start your Windows 2000 computer with RW-470 PLOTBASE as the administrator.
2. Use "Start – Settings – ControlPanel – Add/Remove Programs – Add/Remove Windows Components – Networking Services" to ensure that the TCP/IP-protocol is installed.

Print jobs on Windows 2000 using ftp

If you have entered all the settings described above, you can use the ftp command as follows to send print jobs to RW-470 PLOTBASE via the RW-470 WINPRINT:

1. Open the Prompt on the Windows 2000 computer of RW-470 PLOTBASE.
2. Change to the folder containing the files to be printed.
3. Enter the command "ftp [computer name or computer-IP]". The system changes to the ftp subsystem and sets up a network link to the required computer.
4. You are now asked for the name of the user. Enter "anonymous" and confirm with the return key.
5. Confirm the password query by simply not entering a password.
6. Now enter the "binary" command for transmission in binary mode and confirm with the return key.
7. Change to CFG folder using the command "cd cfg".
8. Enter the following command if you want to print one file. If you want to print several files, proceed with Item 8. For one file, the command is:

```
put <filename>  
= put graphics.tif
```

9. If you want to print several files at once, enter the following command:

```
mput <filename> <filename> ...  
= mput graphics.tif city.plt
```

10. If a file comes from another folder than the current folder, enter the path as well as the file name, as shown in the following:

```
mput <filename> <path>\<filename>  
= mput graphics.tif tmp\city.plt
```

If you send a file without print parameters to RW-470 PLOTBASE, the RW-470 PLOTBASE basic settings are used. If you want to send your own print parameters with the plot, you have to first send the CFG file, which must have the same name as the graphic file, and then send the graphic file itself!



Attention: Always send the CFG or SSL file with your print parameters first, then send the graphic file. Otherwise there is a risk that RW-470 PLOTBASE begins to print your file before it has received your own print parameters for the print (CFG or SSL file):

```
mput graphics.cfg graphics.tif
```

Configuration on UNIX

1. Install the “General Network Services” – TCP/IP.
2. Then install the “BSD Print Spooling System”. For SuSE>= V6.4 “LPROLD from Network Support”; TCP/IP, UUCP, Mail, News.

Print jobs on UNIX using ftp

If you have entered all the settings described above, you can use the ftp command as follows to send print jobs to the RW-470 PLOTBASE via RW-470 WINPRINT:

1. Open the prompt on the UNIX computer.
2. Change to the folder containing the files to be printed.
3. Enter the command "ftp [computer name or computer-IP]". The system changes to the ftp subsystem and sets up a network link to the required computer.
4. You are now asked for the name of the user. Enter "anonymous" and confirm with the return key.
5. Confirm the password query by simply not entering a password.
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= mput graphics.tif tmp\city.plt
```

If you send a file without print parameters to RW-470 PLOTBASE, the RW-470 PLOTBASE basic settings are used. If you want to send your own print parameters with the plot, you have to first

send the CFG file, which must have the same name as the graphic file, and then send the graphic file itself!



Attention: Always send the CFG or SSL file with your print parameters first, then send the graphic file. Otherwise there is a risk that RW-470 PLOTBASE begins to print your file before it has received your own print parameters for the print (CFG or SSL file):

```
mput graphics.cfg graphics.tif
```

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